

## Solenoid valve for pneumatic systems

## G BR X 030

### Function

- 3/2 NC, 3/2 NO
- Directly controlled
- For air and neutral gases
- Pressure range up to 10 bar
- High switching life time

### Construction

- Modular design
- Solenoid body and valve supplied separately
- Insulation class F
- Valve housing variants
  - Cnomo
  - Flange
  - Thread
- Electrical connection via Type Z KB plug-in socket in accordance with DIN EN 175301-803
- Protection class in accordance with DIN VDE/ DIN EN 60529 when installed correctly
  - Plug sockets in accordance with DIN 46247: IP00
  - Plug connection via device socket: IP65
- Magnetic body rotatable in 90° steps

### Application examples

- Pneumatically controlled functions in railway applications such as coupling, pantograph and braking systems, door control and air dryers

### Options on request

- Customised mechanical connections
- Adjustments of function, nominal diameter, pressure range
- Further functional variants such as 2/2 NO or 2/2 NC
- Please contact us for application related solutions

### Standards

- Quality management to ISO 9001
- Vinyl solenoid bodies in accordance with UL 94-VO



Fig. 1: Type G BR X 030  
Valve variant Cnomo

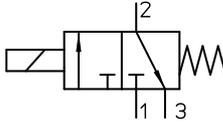
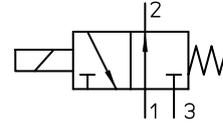


Fig. 2: Type G BR X 030  
Valve variant flange



Fig. 3: Type G BR X 030  
Valve variant Threaded

## Technical data

<b>G BR X 030</b>								
Insulation class	F							
Operating temperature	-40 to +70°C							
Function	3/2 NC				3/2 NO			
Circuit diagram								
<b>Electrical data</b>								
Rated voltage	12 V	110 V	12 V	110 V	12 V	110 V	12 V	110 V
Relative duty cycle ED	100 % ED							
Voltage tolerance	+25% - 30%				+25% - 20%		+25% - 30%	
Rated power	3.5 W			10 W				
Rated current	0.146 A	0.032 A	0.417 A	0.091 A	0.417 A	0.091 A	0.417 A	0.091 A
<b>Pneumatic data</b>								
Nominal diameter P, R	1.5 mm			2.5 mm				
Pressure range	2.5 – 10 bar		2.5 - 8 bar		2.5 – 10 bar			
Nominal flow rate Q <sub>N</sub> 1-2; 2-3	>50 l / min		≥120 l / min				≥110 l / min	

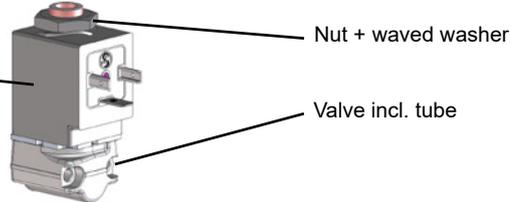
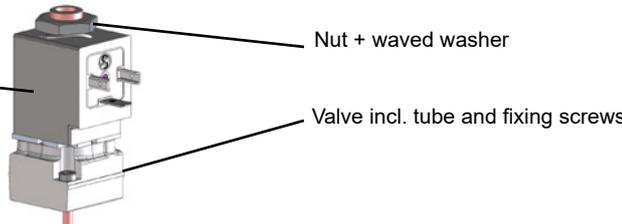
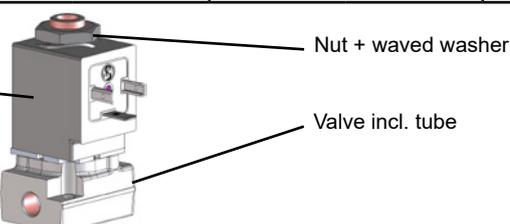
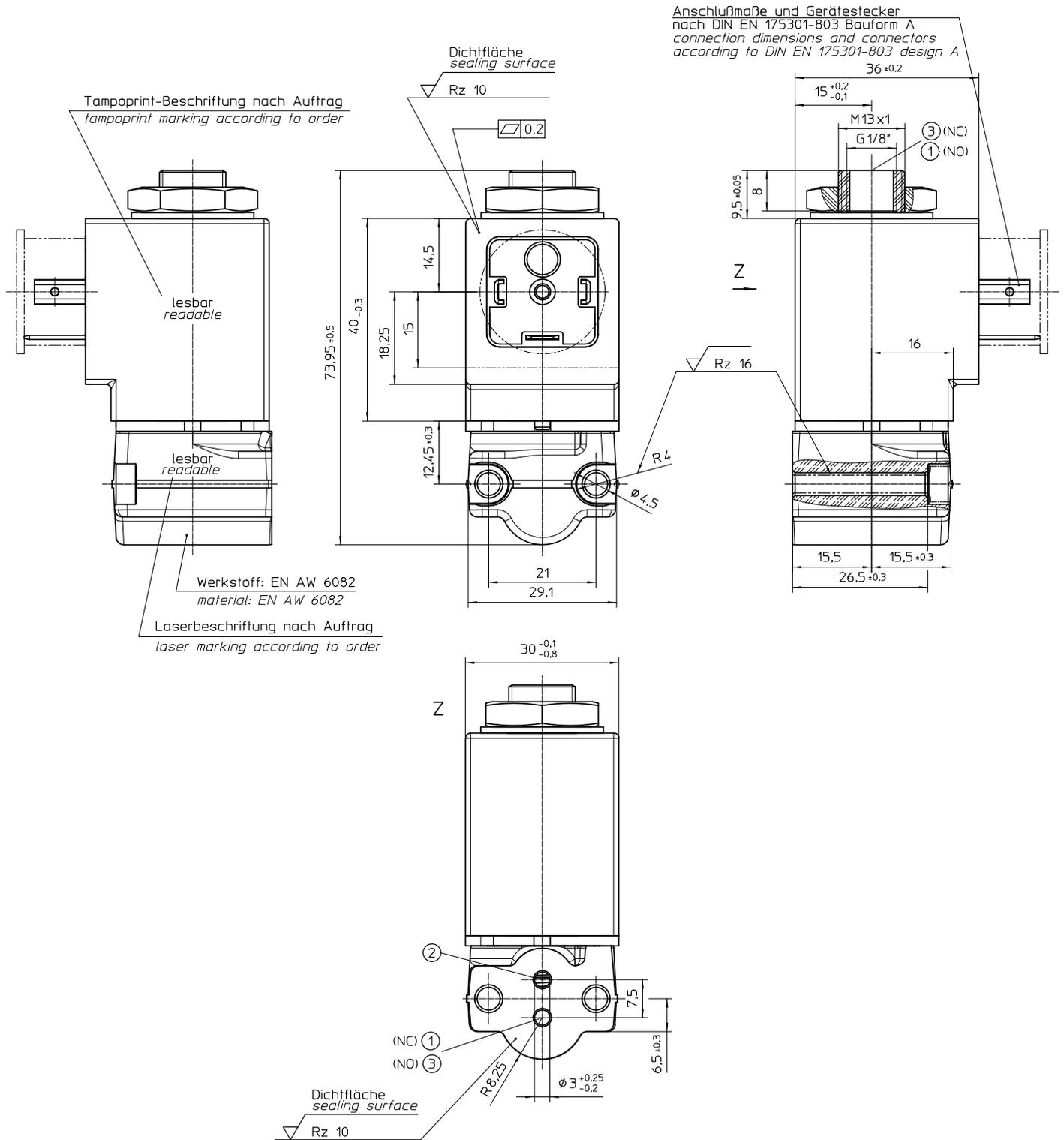
<b>Descriptions / Order numbers</b>								
Order number for solenoid body	902331001	902331002	902331003	902331004	902331003	902331004	902331003	902331004
Voltage	24V	110 V	24V	110 V	24V	110 V	24V	110 V
Valve part number CNOMO	902332		902336		902339		902342	
								
Valve part number flange	---	902337		902340		902343		
								
Valve part number threaded	---	902338		902341		902344		
								

Table 1

## Dimensional drawings



**Fig. 4:** Valve 902332, 902336, 902339, 902342 including solenoid body 902331

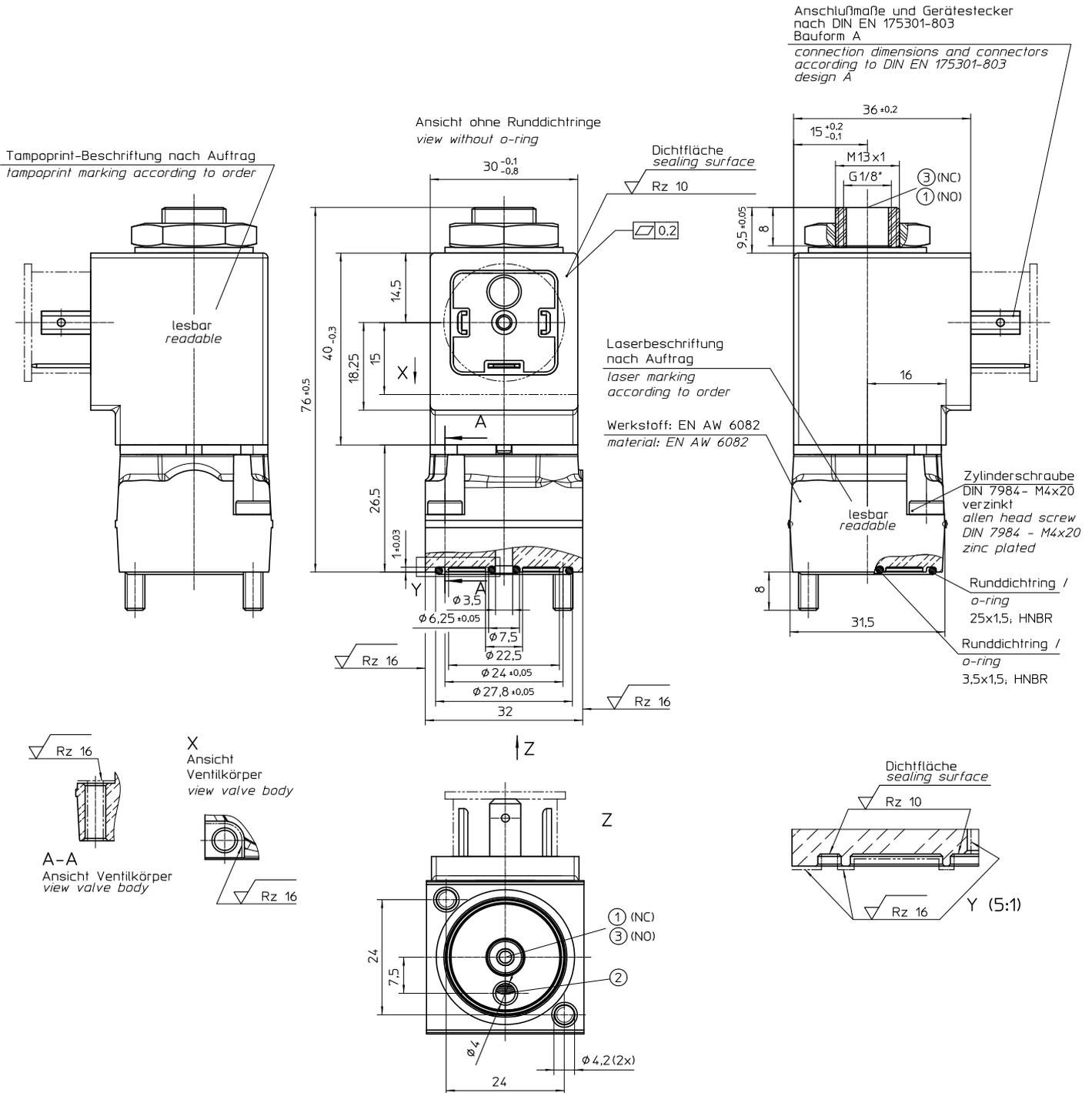


Fig. 5: Valve 902337, 902340, 902343, including solenoid body 902331

Anschlußmaße und Gerätestecker  
 nach DIN EN 175301-803  
 Bauform A  
 connection dimensions and connectors  
 according to DIN EN 175301-803  
 design A

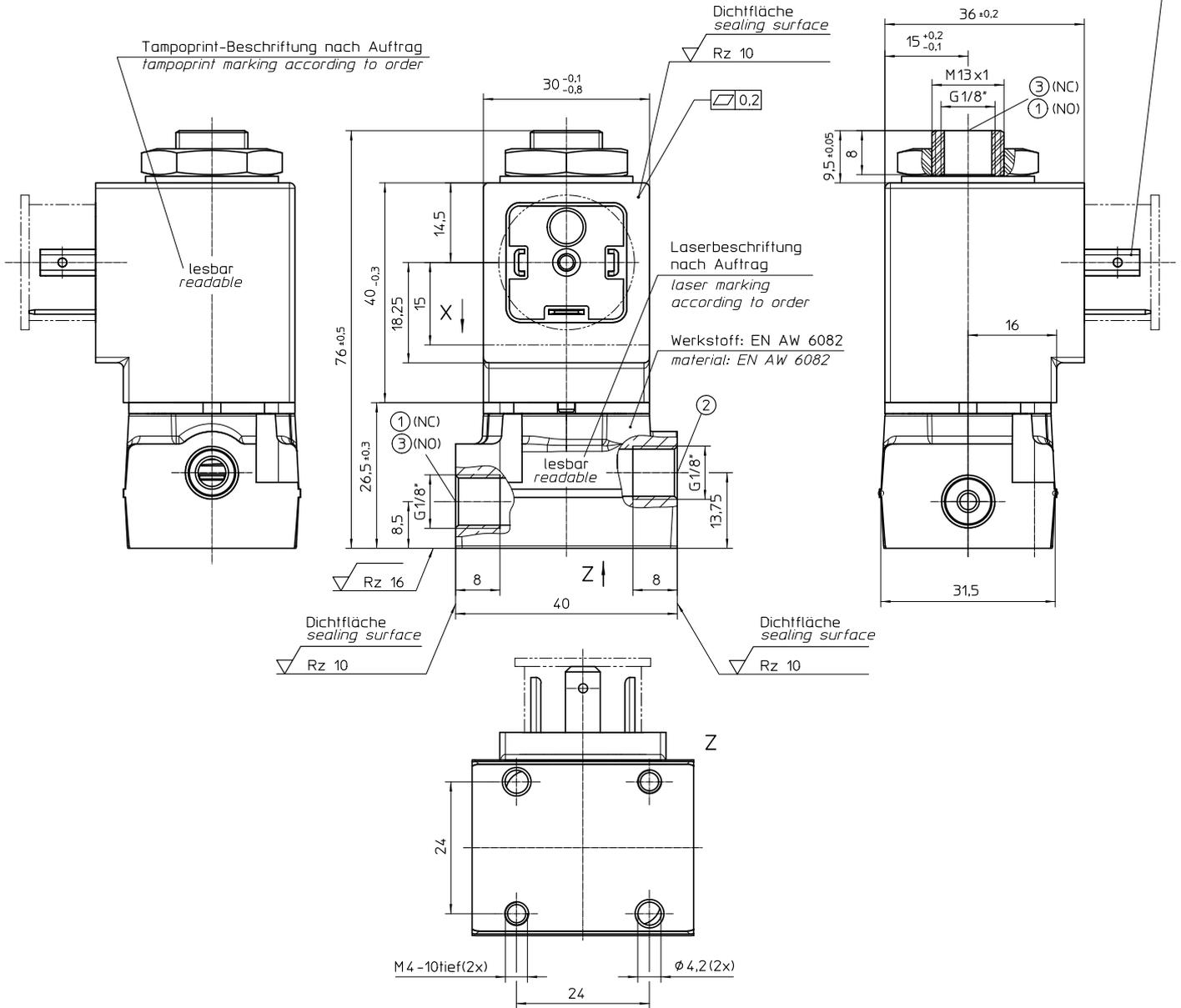


Fig. 6: Valve 902338, 902341, 902344, including solenoid body 902331

### Rated voltage

The rated voltages are 24 VDC and 110 VDC; on request, the windings can be adapted for voltages.

Standard values for voltage and duty cycle: 24 V, S1 (100%), 110 V, S1 (100%)..

**Information and remarks concerning European directives** can be taken from the correspondent information sheet which is available online *Produktinfo.Magnet-Schultz.com*.

**Please make sure that the described devices are suitable for your application. Our offers for these devices are based on the assumption of maximal 8 in an FMEA severity table, i. e. in case of malfunction of the device model as offered, there is, amongst others, no jeopardy to life or limb. Supplementary information concerning its proper installation can be taken also from the  –Technical Explanation, the effective DIN VDE0580 as well as the relevant specifications.**

This part list is a document for technically qualified personnel.

This publication is for information purposes only and is not to be regarded as a binding representation of the products, unless this is expressly confirmed by us.

Please note that for a complete valve, the solenoid body and valve must always be ordered separately. The solenoid body and valve are supplied separately.

The order numbers can be found in Table 1

### Order example

Magnet body	902331001 24V, 3.5W
Valve	902332

### Specials designs

Please do not hesitate to ask for our assistance in finding a solution of your application-oriented task. In order to find a reliable solution within short time, we need complete details about your application conditions. The details should be specified as precisely as possible in accordance with the relevant  -Technical Explanations.

If required, please request assistance from our experts.